



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:

MARGUERITE A. CERVIN ET. AL.

CASE NO.: CL2180USNA

APPLICATION NO.: 10/680286

CONFIRMATION NO.: 5853

GROUP ART UNIT: 1652

EXAMINER:

FILED: October 06, 2003

FOR: PROCESS FOR THE BIOLOGICAL PRODUCTION OF 1,3-PROPANEDIOL WITH  
HIGH YIELD

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with 37 C.F.R. §§1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office the information listed on the enclosed PTO/SB/08A and/or PTO/SB/08B forms. A copy of the information, if required, is also enclosed. Consideration of the information is requested under 37 C.F.R. § 1.56 and this information is submitted in accord with the provisions of §1.97(c): after the period specified in §1.97(b) but before the mailing of a Notice of Allowance, or any other action that closes prosecution.

The PTO is authorized to charge the fee set forth in 37 C.F.R. §1.17(p) to Deposit Account No. **04-1928** (E. I. du Pont de Nemours and Company) in order to complete the requirements for consideration of this Information Disclosure Statement.

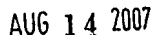
Respectfully submitted,

Neil Feltham, Reg No. 36,506 for  
Christine L. Lhulier  
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Registration No.: 54,269  
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08/15/2007 HVUONG1 00000007 041928 10680286

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Dated: August 10, 2007



Approved for use through 09/30/2007. OMB 0651-0031

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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

Sheet	1	of	9
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**Complete if Known**

Application Number	10/680,286
Filing Date	OCTOBER 6, 2003
First Named Inventor	MARQUERITE CERVIN
Art Unit	1652
Examiner Name	I.H. CHOWDHURY
Attorney Docket Number	CL2180 US NA

## U. S. PATENT DOCUMENTS

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Sheet 2	of 9	Attorney Docket Number CL2180 US NA	

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Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		NCBI, General Identification No. 15802948, Perna, N.T. et al., Genome sequence of enterohemorrhagic Escherichia coli 0157:H7 Nature 409 (6819), 529-533 (2001).	
		NCBI, General Identification No. 16130341, Riley, M. et al., Escherichia coli K-12: a cooperatively developed annotation snapshot--2005, Nucleic Acids Res. 34(1), 1-9 (2006).	
		NCBI, General Identification No. 26248792, Welch R.A. et al., Proc. Natl. Acad. Scii. U.S.A. 99 (26), 17020-17024 (2002) Extensive mosaic structure revealed by the .....	
		NCBI, General Identification No. 15832541, Hayashi, T. et al., DNA Res. 8(1), 11-22 (2001), Complete genome sequence of enterohemorrhagic Escherichia coli .....	
		NCBI, General Identification No. 15802949, Perna, N.T. et al., Nature 409 (6819), 529-33 (2001), Genome sequence of enterohemorrhagic Escherichia coli 0157:H7.	
		NCBI, General Identification No. 16130342, Riley, M. et al., Nucleic Acids Res. 34(1), 1-9 (2006), Escherichia coli K-12: a cooperatively developed annotation snapshot--2005.	
		NCBI, General Identification No. 26248793, Welch R.A. et al., Proc. Natl. Acad. Scii. U.S.A. 99 (26), 17020-17024 (2002), Extensive mosaic structure revealed by the .....	
		NCBI, General Identification No. 15832542, Hayashi, T. et al., DNA Res. 8(1), 11-22 (2001), Complete genome sequence of enterohemorrhagic Escherichia coli .....	
		NCBI, General Identification No. 15802950, Perna, N.T. et al., Genome sequence of enterohemorrhagic Escherichia coli 0157:H7 Nature 409 (6819), 529-533 (2001).	
		NCBI, General Identification No. 6130343, Riley, M. et al., Nucleic Acids Res. 34(1), 1-9 (2006), Escherichia coli K-12: a cooperatively developed annotation snapshot--2005.	

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		NCBI, General Identification No. 26248794, Welch R.A. et al., Proc. Natl. Acad. Scii. U.S.A. 99 (26), 17020-17024 (2002) Extensive mosaic structure revealed by the .....	
		NCBI, General Identification No.15802930, Perna, N.T. et al., Genome sequence of enterohemorrhagic Escherichia coli 0157:H7 Nature 409 (6819), 529-533 (2001).	
		NCBI, General Identification No. 16130320, Riley, M. et al., Nucleic Acids Res. 34(1), 1-9 (2006), Escherichia coli K-12: a cooperatively developed annotation snapshot--2005.	
		NCBI, General Identification No. 26248769, Welch R.A. et al., Proc. Natl. Acad. Scii. U.S.A. 99 (26), 17020-17024 (2002) Extensive mosaic structure revealed by the .....	
		NCBI, General Identification No. 15832522, Hayashi, T. et al., DNA Res. 8(1), 11-22 (2001), Complete genome sequence of enterohemorrhagic Escherichia coli .....	
		NCBI, General Identification No. 15803482, Perna, N.T. et al., Genome sequence of enterohemorrhagic Escherichia coli 0157:H7 Nature 409 (6819), 529-533 (2001).	
		NCBI, General Identification No. 16130844, Riley, M. et al., Nucleic Acids Res. 34(1), 1-9 (2006), Escherichia coli K-12: a cooperatively developed annotation snapshot--2005.	
		NCBI, General Identification No. 26249364, Welch R.A. et al., Proc. Natl. Acad. Scii. U.S.A. 99 (26), 17020-17024 (2002) Extensive mosaic structure revealed by the .....	
		NCBI, General Identification No. 15833073, Hayashi, T. et al., DNA Res. 8(1), 11-22 (2001), Complete genome sequence of enterohemorrhagic Escherichia coli .....	
		NCBI, General Identification No. 15802193, Perna, N.T. et al., Genome sequence of enterohemorrhagic Escherichia coli 0157:H7 Nature 409 (6819), 529-533 (2001).	

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of

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		NCBI, General Identification No. 16129733, Riley, M. et al., Escherichia coli K-12: a cooperatively developed annotation snapshot-2005, Nucleic Acids Res. 34(1), 1-9 (2006).	
		NCBI, General Identification No. 26248038, Welch R.A. et al., Proc. Natl. Acad. Scii. U.S.A. 99 (26), 17020-17024 (2002) Extensive mosaic structure revealed by the .....	
		NCBI, General Identification No. 15831742, Hayashi, T. et al., DNA Res. 8(1), 11-22 (2001), Complete genome sequence of enterohemorrhagic Escherichia coli .....	
		NCBI, General Identification No. 15804972, Perna, N.T. et al., Genome sequence of enterohemorrhagic Escherichia coli 0157:H7 Nature 409 (6819), 529-533 (2001)	
		NCBI, General Identification No. 16132218, Riley, M. et al., Escherichia coli K-12: a cooperatively developed annotation snapshot-2005, Nucleic Acids Res. 34(1), 1-9 (2006).	
		NCBI, General Identification No. 26251294, Welch R.A. et al., Proc. Natl. Acad. Scii. U.S.A. 99 (26), 17020-17024 (2002) Extensive mosaic structure revealed by the .....	
		NCBI, General Identification No. 15834613, Hayashi, T. et al., DNA Res. 8(1), 11-22 (2001), Complete genome sequence of enterohemorrhagic Escherichia coli .....	
		NCBI, General Identification No. 15804552, Perna, N.T. et al., Genome sequence of enterohemorrhagic Escherichia coli 0157:H7 Nature 409 (6819), 529-533 (2001) .	
		NCBI, General Identification No. 16131794, Riley, M. et al., Escherichia coli K-12: a cooperatively developed annotation snapshot-2005, Nucleic Acids Res. 34(1), 1-9 (2006)	
		NCBI, General Identification No. 26250729, Welch R.A. et al., Proc. Natl. Acad. Scii. U.S.A. 99 (26), 17020-17024 (2002) Extensive mosaic structure revealed by the .....	

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		NCBI, General Identification No. 15834139, Hayashi, T. et al., DNA Res. 8(1), 11-22 (2001), Complete genome sequence of enterohemorrhagic Escherichia coli .....	
		NCBI, General Identification No. 15801909, Perna, N.T. et al., Genome sequence of enterohemorrhagic Escherichia coli 0157:H7 Nature 409 (6819), 529-533 (2001).	
		NCBI, General Identification No. 16129231, Riley, M. et al., Escherichia coli K-12: a cooperatively developed annotation snapshot--2005, Nucleic Acids Res. 34(1), 1-9 (2006).	
		NCBI, General Identification No. 26247599, Welch R.A. et al., Proc. Natl. Acad. Scii. U.S.A. 99 (26), 17020-17024 (2002) Extensive mosaic structure revealed by the .....	
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		NCBI, General Identification No. 26249576, Welch R.A. et al., Proc. Natl. Acad. Scii. U.S.A. 99 (26), 17020-17024 (2002) Extensive mosaic structure revealed by the .....	
		NCBI, General Identification No. 15833149, Hayashi, T. et al., DNA Res. 8(1), 11-22 (2001), Complete genome sequence of enterohemorrhagic Escherichia coli ...	
		NCBI, General Identification No. 15800822, Perna, N.T. et al., Genome sequence of enterohemorrhagic Escherichia coli 0157:H7 Nature 409 (6819), 529-533 (2001).	

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		NCBI, General Identification No. 90111195, Riley, M. et al., Escherichia coli K-12: a cooperatively developed annotation snapshot--2005, Nucleic Acids Res. 34(1), 1-9 (2006).	
		NCBI, General Identification No. 26246985, Welch R.A. et al., Proc. Natl. Acad. Sci. U.S.A. 99 (26), 17020-17024 (2002) Extensive mosaic structure revealed by the .....	
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		NCBI, General Identification No. 26248684, Welch R.A. et al., Proc. Natl. Acad. Sci. U.S.A. 99 (26), 17020-17024 (2002) Extensive mosaic structure revealed by the complete.	
		NCBI, General Identification No. 15833249, Hayashi, T. et al., DNA Res. 8(1), 11-22 (2001), Complete genome sequence of enterohemorrhagic Escherichia coli ....	
		NCBI, General Identification No. 15802844, Perna, N.T. et al., Genome sequence of enterohemorrhagic Escherichia coli 0157:H7 Nature 409 (6819), 529-533 (2001).	
		NCBI, General Identification No. 16130232, Riley, M. et al., Escherichia coli K-12: a cooperatively developed annotation snapshot--2005, Nucleic Acids Res. 34(1), 1-9 (2006).	
		NCBI, General Identification No. 26248686, Welch R.A. et al., Proc. Natl. Acad. Sci. U.S.A. 99 (26), 17020-17024 (2002) Extensive mosaic structure revealed by the .....	
		NCBI, General Identification No. 15832435, Hayashi, T. et al., DNA Res. 8(1), 11-22 (2001), Complete genome sequence of enterohemorrhagic Escherichia coli ....	

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		NCBI, General Identification No. 16129376, Riley, M. et al., Escherichia coli K-12: a cooperatively developed annotation snapshot--2005, Nucleic Acids Res. 34(1), 1-9 (2006).	
		NCBI, General Identification No. 26247703, Welch R.A. et al., Proc. Natl. Acad. Sci. U.S.A. 99 (26), 17020-17024 (2002) Extensive mosaic structure revealed by the .....	
		NCBI, General Identification No. 15831275, Hayashi, T. et al., DNA Res. 8(1), 11-22 (2001), Complete genome sequence of enterohemorrhagic Escherichia coli .....	
		NCBI, General Identification No. 15804128, Perna, N.T. et al., Genome sequence of enterohemorrhagic Escherichia coli 0157:H7 Nature 409 (6819), 529-533 (2001).	
		NCBI, General Identification No. 90111619, Riley, M. et al., Escherichia coli K-12: a cooperatively developed annotation snapshot--2005, Nucleic Acids Res. 34(1), 1-9 (2006).	
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		NCBI, General Identification No. 38704182, Hayashi, T. et al., DNA Res. 8(1), 11-22 (2001), Complete genome sequence of enterohemorrhagic Escherichia coli .....	
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		Application Number	10/680,286
		Filing Date	OCTOBER 6, 2003
		First Named Inventor	MARQUERITE CERVIN
		Art Unit	1652
Examiner Name	I.H. CHOWDHURY		
Sheet 8	of 9	Attorney Docket Number CL2180 US NA	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		NCBI, General Identification No. 26248116, Welch R.A. et al., Proc. Natl. Acad. Scii. U.S.A. 99 (26), 17020-17024 (2002) Extensive mosaic structure revealed by the .....	
		NCBI, General Identification No. 15804515, Perna, N.T. et al., Genome sequence of enterohemorrhagic Escherichia coli 0157:H7 Nature 409 (6819), 529-533 (2001).	
		NCBI, General Identification No. 16131764, Riley, M. et al., Escherichia coli K-12: a cooperatively developed annotation snapshot--2005, Nucleic Acids Res. 34(1), 1-9 (2006).	
		NCBI, General Identification No. 26250692, Welch R.A. et al., Proc. Natl. Acad. Sci. U.S.A. 99 (26), 17020-17024 (2002) Extensive mosaic structure revealed by the .....	
		NCBI, General Identification No. 15834105, Hayashi, T. et al., DNA Res. 8(1), 11-22 (2001), Complete genome sequence of enterohemorrhagic Escherichia coli .....	
		NCBI, General Identification No. 15804542, Perna, N.T. et al., Genome sequence of enterohemorrhagic Escherichia coli 0157:H7 Nature 409 (6819), 529-533 (2001).	
		NCBI, General Identification No. 90111668, Riley, M. et al., Escherichia coli K-12: a cooperatively developed annotation snapshot--2005, Nucleic Acids Res. 34(1), 1-9 (2006).	
		NCBI, General Identification No. 26250718, Welch R.A. et al., Proc. Natl. Acad. Sci. U.S.A. 99 (26), 17020-17024 (2002) Extensive mosaic structure revealed by the .....	
		NCBI, General Identification No. 38704215, Hayashi, T. et al., DNA Res. 8(1), 11-22 (2001), Complete genome sequence of enterohemorrhagic Escherichia coli .....	
		V. GERSHANOVITCH ET AL. Repression of Inducible Enzyme Synthesis..., Molec. Gen. Genet. 153, 185-190, 1977.	

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		T. HESTERKAMP ET AL., A Reporter Gene Assay for Inhibitors..., J. Mol. Microbiol. Biotechnol, 1999, 1(2): 309-317.	
		D. W. SAFFEN ET AL., Sugar Transport by the Bacterial ....., Journal of Biological Chemistry, Vol. 262, No. 33, Issue Nov. 25, pp. 16241-16253, 1987.	✓
		YEA-TYNG YANG, Metabolic Flux Analysis of Escherichia coil....., Metabolic Engineering Vol. 1, 26-34, 1999.	
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		H. P. SCHWEIZER ET AL., Structure and gene-polypeptide relationships..., Microbiology, 1997, 143, 1287-1297.	
		N. E. ALTARAS ET AL., Metabolic Engineering of a 1,2-Propanediol..., Applied & Environmental Microbiology, Mar. 1999, Vol. 65, No. 3, p. 1180-1185.	

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